



Outcome of the Sixth Meeting of the Eighth Baltic Sea Pollution Load Compilation (PLC-8) Project Implementation Group (PLC-8 IG 6-2021)

Introduction

0.1 The Sixth Meeting of the PLC-8 Project Implementation Group (PLC-8 IG 6-2021) was held online, on 15-17 December 2021.

0.2 The Meeting was attended by representatives from all Contracting Parties except for the EU and Lithuania. Also, experts from BNI (Sweden) participated in the Meeting. The List of Participants is in **Annex 1**.

0.4 The Meeting was chaired by the PLC-8 Project Manager, Lars M. Svendsen, Denmark. Lotta Ruokanen and Susanna Kaasinen from the HELCOM Secretariat, acted as secretaries of the meeting.

Agenda Item 1 Adoption of the Agenda

1.1 The Meeting adopted the Agenda of the Meeting as contained in document 1-1.

Agenda Item 2 Matters arising from other HELCOM work

2.1 The Meeting took note that the HELCOM Ministerial Meeting 2021 held on 20 October 2021 in Lübeck, Germany, adopted the updated Baltic Sea Action Plan and a number of associated action documents and supporting documents. The Meeting also took note of the actions of relevance for PLC-8 IG (document 2-1, **Presentation 1**). The Meeting took note that it has not been determined how many priority and hazardous substances HELCOM should focus on and that EG HAZ will embark on this work.

2.2 The Meeting took note that HOD 61-2021 approved the Terms of Reference for the Expert Group on Hazardous Substances (EG HAZ) and work plan including the expansion of the responsibilities of the group and the transformation to being an Expert Group jointly guided by State and Conservation and Pressure Working Groups ([Outcome of HOD 61-2021, Annex 8](#)). The Meeting took note that CG PHARMA was merged to EG HAZ. The Meeting invited the Secretariat to provide further information on the ToR and the cooperation of the PLC project and EG HAZ in PLC-8 IG 7-2022.

2.3 The Meeting took note that PRESSURE 15-2021 agreed on the continuation of the cooperation on the revision of the Gothenburg Protocol based on the proposed methodological approach. The Meeting took note of the status of the developed provisional CAIs (critical atmospheric inputs) presented by BNI noting that BNI developed a suggestion where the sensitivity of the Baltic Sea to atmospheric nitrogen deposition has been calculated proportional to the MAI. The Meeting further took note that the proposal has been submitted to Germany that is leading the process and that for HELCOM's part the work has now been accomplished. The Meeting noted that further continuation of the process in a separate project is dependent on additional financing.

2.4 The Meeting took note that PRESSURE 15-2021 adopted the updated PLC-Water Guidelines, which were submitted to HOD 61-2021 for information. The Meeting also took note that HOD 61-2021 endorsed the draft revised HELCOM Recommendations 37-38/1 and 37-38/2 to be submitted to HELCOM 43-2022 for adoption.

2.5 The Meeting took note that that the PLC-7 thematic report on effectiveness of measures was endorsed by PRESSURE 15-2021 and approved by HOD 61-2021 to be published in the HELCOM BSEP series.

- 2.6 The Meeting took note that HOD 61-2021 approved the publication of the MAI core indicator on inputs of nutrients.
- 2.7 The Meeting took note that the reports “Applied methodology for the PLC-7 assessment” and “Background information on the Baltic Sea catchment area for the Seventh Baltic Sea Pollution Load Compilation PLC-7” are published on the [HELCOM website](#).
- 2.8 The Meeting took note that PRESSURE 15-2021 in principle approved the publication of both the Baltic Sea Environment Fact Sheets on the airborne input of selected hazardous substances and nitrogen emissions and deposition, that EMEP has made the changes requested and that the BSEFS will be published on the HELCOM website shortly.
- 2.9 The Meeting took note that PRESSURE 15-2021 discussed that PLC project plan could be expanded to support the work in developing criteria for designating new hot spots for nutrient inputs. The Meeting took note that Germany has offered to lead the work on developing criteria on designating new hot spots related to nutrients. The Meeting took note that HOD 61-2021 highlighted the urgent implementation of the BSAP actions and will provide more guidance on the implementation of the BSAP in HELCOM 43-2022.
- 2.10 The Meeting took note that Russia has opened a new monitoring station at the mouth of the Luga river and aims to report new data for the PLC-8 project. The Meeting also took note that discussion is ongoing in Russia on comparison of the earlier and the new data.
- 2.11 The Meeting took note that Denmark will present in the PLC-8 IG 7-2022 meeting results of a study on testing different monitoring equipment for quantified flows in Danish rivers. The Meeting also took note that Denmark has an ongoing project developing a heavy metal model to quantify inputs for the entire Danish area and minor catchments aggregating data from monitoring, screening, studies and models building on machine learning and that the project report will be published in 2022. The Meeting further took note that Denmark has developed a new improved model on total phosphorus which is expected to be used starting from 2022 for unmonitored area.
- 2.12 The Meeting took note of the status of HOLAS III assessment and any data needs from the project (document 2-2, **Presentation 2**).
- 2.13 The Meeting took note of the clarification that while the assessment period for HOLAS 3 is 2016-2021, not all these years need to be covered in the data submitted and thus e.g. the source apportionment data from 2017 can be utilized.
- 2.14 The Meeting took note that driver indicators are tested for the first time in the HOLAS 3 assessment and that the aim is to identify drivers for topics where it is assumed that information can be available, e.g. eutrophication and selected hazardous substances, and link them to the next steps in the management cycle. The Meeting also took note that there is no tool for the drivers, but a decision tree will be utilized, and the driver indicators will be used to provide context for the reports.
- 2.15 The Meeting suggested that information gathered in the BalticApp project funded by BONUS could be useful for the driver indicators.
- 2.16 The Meeting took note of the clarification that not all data needs to fit in the same assessment units in HOLAS 3, but the aim is to show the different results, such as the PLC results, and how they fit into the management cycle of nutrients and hazardous substances. The Meeting also took note of the clarification that the pressure impact index has been further developed for HOLAS 3 with the help of dedicated workshops to provide context information for the results.
- 2.17 The Meeting invited the Secretariat to clarify whether the new indicator template should also be applied to the MAI indicator.

Agenda Item 3

PLC-8 activities

Reporting annual data 2020 on waterborne input of nutrients and selected hazardous substances

- 3.1 The Meeting considered the status of the 2020 annual data reporting (document 3-1) and the updates after the submission of the document. The Meeting took note that the reporting deadline has been

updated in the revised PLC-water guidelines and some countries have considered the new December reporting deadline to be already in use. Further, the Meeting took note of the status of the individual countries' reporting:

- Germany's complete data set is ready but still in the process of uploading before Christmas;
- Estonia has uploaded the data on 14 December but had some problems related to variable limits of quantification (LOQ) of data on same rivers depending on sample and measurement method;
- Lithuania has reported before submission of the document 3-1 but was not present to comment;
- Latvia has reported before submission of the document 3-1 but has had similar problems with variable LOQs related to e.g. equipment break and new equipment having a new LOQ; also some transboundary catchments are reported in the national sub-catchments;
- Finland's data is ready for reporting after final check today;
- Poland's data is ready for reporting, starting tomorrow;
- Russia has reported before submission of the document 3-1 but has to approve some data manually and some data is still missing;
- Sweden has reported before submission of the document 3-1 but has to make some manual approvals and there are some missing values;
- Denmark has reported after the document submission with 180 sub-catchments;

3.2 The Chair thanked the Contracting Parties for reporting in time for the first time and anticipated preparing the assessment dataset for consideration of the PLC-8 IG 7-2022 meeting.

3.3 The Meeting took note that several Contracting Parties have had challenges with uploading flow values without LOQ and receiving an error message, but according to BNI this is not a critical value type and thus data can be uploaded without having LOQ reported even though the error message is sent. Currently when extracting assessment data from PLC database to the assessment database, it doesn't take into account the LOQ or LOD, even though sometimes it is important.

3.4 The Meeting pointed out that the Contracting Parties calculate the loads and should choose which LOQ to use with a certain value and the PLC project doesn't directly use this data. The Meeting however considered that the missing or variable LOQ values is an important matter that should be known and can cause biases in the final reporting especially when reporting hazardous substances.

3.5 The Meeting agreed to discuss the matter in the PLC-8 IG 7-2022 meeting and invited Estonia to provide some example calculations for the meeting on how changing LOQ changes the annual load calculations. There is a big effort in calculating uncertainties of the data but if many of the reported values are below LOQ the whole results may be questionable.

3.6 The Meeting discussed a proposal presented by the Project Manager on compiling with reporting annual data a very short standardized written report on some main events (as weather, change of monitoring sites/methods) that should be taken into account when assessing the data for that particular year. This is also related to the discussion on missing or changing LOQ values affecting the reported values. The proposal was based in part on OSPAR reporting on methodology changes and episodes.

3.7 The Meeting welcomed the proposal by the Project Manager, invited the Project Manager to develop it with Sweden and agreed to consider the reporting format further in the PLC-8 IG 7-2022 meeting with the aim to use this approach for the 2021 data reporting.

3.8 The Meeting took note that there are currently no problems foreseen in periodic reporting with prefilled templates to be shared in August 2022 and with the deadline of March 2023 but agreed to discuss the matter further already in PLC-8 IG 7-2022 meeting with an overview of the previous reporting and related obstacles and invited the Secretariat to draft a document on this.

PLC workshop on the effectiveness of measures and the analysis of implementation obstacles/best practice

3.9 The Meeting took note that HOD 61-2021 approved the organization of the PLC workshop in 2022 (document 3-2). The Meeting considered the content, agenda and invitees of the proposed PLC workshop on the effectiveness of measures and the analysis of implementation obstacles and best practices. The Meeting took note that Germany aims to present in the workshop a detailed analysis basin by basin on the so-called distance to NICs and remaining reduction requirements, and the first estimation on how the reductions could be achieved.

3.10 The Meeting welcomed the aims of the event to discuss and verify these analyses, identify if NIC achievement is possible by country and basin, estimate effectiveness of WFD measures, estimate effectiveness of BSAP and MSFD measures, discuss WFD and BSAP nutrient reduction targets and to collect best practice examples of effective measures to reduce nutrient inputs with a spotlight session of á 5 min presentations.

3.11 The Meeting agreed that the workshop is to be organized in June 2022 and agreed to come back to the date, detailed agenda and invitees in PLC-8 IG 7-2022 meeting and invited Germany and the Secretariat to prepare the further proposal for consideration. Germany invited other Contracting Parties to check whether it would be possible for them to host this workshop in form of a hybrid meeting. To support this, the Meeting invited the Secretariat to share the number of participants from the last RBM WS held in Riga in 2019.

Thematic report on effectiveness of measures to reduce nutrient inputs to the Baltic Sea

3.12 The Meeting discussed the presented questions regarding the scope of the thematic report on effectiveness of measures to reduce nutrient inputs to the Baltic Sea (document 3-3). The Meeting acknowledged that many aspects are familiar already, e.g. changes in point source loads and big MWWTPs, connectivity and inputs from scattered dwellings. The Meeting noted that some new things will be introduced and with implementation status of mitigation measures in 2023 and expected reductions by 2030 several restrictions are expected related to data, and it should be clear what kind of data would be available. The Meeting took note of the following answers to the questions:

- 1. Point source data
 - a) Gaps or errors in the database for 1995-2020 to be filled during 2022 with revising or rereporting data: many Contracting Parties considered it hard to find the source information for 1995-2000 to recalculate the data. However, Poland, Russia, Denmark, Latvia Estonia and Sweden plan to work on filling the gaps or correcting errors in some of the data.
 - b) The nine big MWWTP time series to be complemented or to provide a longer time series: Denmark and Sweden can provide longer series.
 - c) Replacing reported aggregated data with data of individual MWWTPs to calculate reduction potential: Sweden can provide the information and Russia will check the opportunity to do it taking into account legislative restrictions.
- 2. Examples of river catchments
 - a) Examples of river catchments with reduced nutrient inputs 1995-2021: Denmark, Latvia and Finland can provide data; Poland and Estonia don't know yet and Sweden , Germany and Russia will come back to the matter after national discussions.
 - b) Number and type of catchments: From Denmark 3-4 small agricultural rivers, from Finland 3 rivers, from Latvia smaller subcatchments maybe from tributaries of Daugava or Lielupe.
- 3. Connectivity and inputs from scattered dwellings and updates on statistics on treatment categories for 2021: In 2017 all Contracting Parties contributed and many countries consider it also now possible to do this (Denmark, Sweden, Germany, Latvia, Russia) but some of the countries have to check the situation.

3.13 The Meeting considered the questions 4 and 5 in the document 3-3 hard to answer at this stage but pointed out that especially the question 4 on the implementation status of the planned mitigation

measures in 2023 is aligned with the BSAP 2021 action E1 and should contain detailed quantifiable information on sub-basin or country level.

3.14 The Meeting recalled that the aim of the implementation status is to demonstrate that actions have an effect and to quantify what can be achieved and that PLC-8 aims to provide scientific background. The Meeting took note that reporting would be probably similar as for river basin management plans in the EU member countries.

3.15 The Meeting took note that the upcoming Meeting of Chairpersons of HELCOM main groups on 25 January 2022 and HELCOM 43-2022 will provide additional guidance on the implementation of the BSAP.

3.16 The Meeting pointed out that it should be clarified on which level (WG, PLC) and in which form the data on effectiveness of measures (planned mitigation measures and expected reductions) will be collected, both for nutrients and hazardous substances especially in relation to actions E1 and HL3.

3.17 The Meeting acknowledged that expected reductions in nutrient inputs by 2030 (question 5 of the document 3-3) will not be available for many countries. The Meeting noted that Finland and Denmark will be able to provide the estimates.

3.18 The Meeting took note that Russia will come back in PLC-7 IG 7-2022 if more detailed point source data can be provided.

3.19 The Meeting pointed out the connection between the planned report on effectiveness of measures and the PLC workshop and that the workshop will be a good opportunity to discuss what information is available by the Contracting Parties.

3.20 The Meeting took note that the Contracting Parties that are EU member states will submit similar information as part of the reporting on the WFD.

3.21 The Meeting agreed to come back to the open issues at the next meetings.

Statistical methodology report

3.22 The Meeting took note of the finalization and publication of the statistical methodology report (document 4-1).

Agenda Item 4

Finalizing the PLC-7 products

Thematic report on main sources and pathways of waterborne nutrient inputs to the Baltic Sea

4.1 The Meeting scrutinized the draft report on main sources and pathways of waterborne nutrient inputs to the Baltic Sea and discussed the charts and plots at the PLC-8 workspace, and the provisional draft report (document 4-3).

4.2 The Meeting took note of the structure of the draft report, with different levels of aggregation of sources and the chapters reflecting the level of details, with first the most aggregated and then more detailed data with less countries and basins included, having 5 or 6 countries with 5 source categories. The Meeting also noted that differentiation of the importance of sources is visualized in the box-whisker plots and agreed to include all five categories for comparison in box-whisker plots even though some categories are missing for some combinations.

4.3 The Meeting pointed out that 2017 was an exceptional year in meteorological terms with very dry conditions in some of the catchments and very high precipitation in others, causing sharp differences in maps of area specific losses and that this requires attention to be paid in bringing this up e.g. in the subchapter on area specific losses by including map of the specific runoff in 2017 and the deviation from average in specific runoff.

4.4 The Meeting also took note of the fact that in some cases the differences between countries are caused by methodological differences and agreed to add explanation related to these, e.g. regarding the use of 2018 data in Poland, large unmonitored area in the Swedish east coast and the Latvian very low (underestimated) area specific natural background losses caused by the export coefficient being applied only to forested areas and not to other land use categories.

4.5 The Meeting also agreed to include a short summary of the methodologies in the chapter 1 with reference to the methodological report and possibly the country-wise methodology table as an annex.

4.6 The Meeting recalled that PRESSURE 15-2021 agreed that the final draft source apportionment report will be circulated **by mid-January 2022** to the Pressure WG for endorsement via correspondence **by 1 February 2022**. If necessary, an extra PLC-8 IG meeting will be arranged **in February** for finalizing the two remaining PLC-7 products which will be submitted for approval to HELCOM 43-2022 in **March 2022**.

4.7 The Meeting provided advice on the structure of the report, and type, format and layout for the charts, plots and tables, and agreed as follows:

- To have the area specific maps (current chapter 3) before the visualization of different aggregation levels of the data of load-oriented source apportionment (current chapter 2);
- To include tables with numbers with quantification of different sources and on different aggregation levels in the report: to have the highest aggregation levels as pie charts for the general public, but country and sub-basin level as tables for experts to compare with earlier, with substituting some of the pie charts;
- To include area proportional pie charts on map for some aggregation levels to point out significance of different sources, and to add to the headers of all the pie charts more detailed that they are not “total” but some fraction of e.g. total basin or country loads;
- To use same colours for same sources throughout the report with distinct colour zones for diffuse and for point sources, testing with colour-blind readers and always with the same logical order e.g. from atmospheric to natural background and all the way to point sources;
- To facilitate reading of a pdf document, include abbreviations and explain the aggregation level in each subchapter introduction and to check the headings of the subchapters vs. overall categories and to use abbreviation DE for Germany;
- The Meeting agreed to include a summary of the main findings and key figures at the beginning of the report.

4.8 The Meeting discussed and agreed on practical procedures to finalize the draft report on the source apportionment and invited Project Manager to send the final draft to the Secretariat (lotta.ruokanen@helcom.fi) by **16 January 2022** and after that it will be submitted to the Pressure Working Group and PLC-8 IG for intersessional commenting by **17 January 2022**. As agreed by PRESSURE 15-2021, the group will review the report by **1 February 2022** via correspondence to enable submission to HELCOM 43-2022 for final approval of the accomplishment of the PLC-7 project. Furthermore, the Meeting agreed to hold a 3-hour PLC-8 IG meeting on **3 February 2022** (10.00-13.00 EET/9.00-12.00 CET) for discussing how to follow-up on comments received.

PLC-7 executive summary

4.9 The Meeting scrutinized the PLC-7 executive summary and took note that the summary contains information until 2018 and that there are placeholders for three further parts to be updated when the final draft source apportionment report is ready (document 4-2).

4.10 The Meeting invited Project Manager to provide updated input from source apportionment to the draft executive summary by **12 January 2022** to the Secretariat (Dmitry.frank-kamenetsky@helcom.fi) to be finalised by the Secretariat by **14 January 2022**, agreed that the executive summary will be submitted to the Pressure Working Group by **17 January 2022** with the final draft source apportionment report. As agreed by PRESSURE 15-2021, the group will review the summary by **1 February 2022** via correspondence to enable submission to HELCOM 43-2022 for final approval of the accomplishment of PLC-7 project.

Agenda Item 5

Any other business

5.1 The Meeting recalled that PLC-8 IG 5-2021 was informed about BNI looking into dissolved nutrient fractions reporting to HELCOM PLUS. The Meeting took note of a summary on the dissolved nutrient fractions data in the PLC-water database (**Presentation 3**).

- 5.2 The Meeting welcomed the impressive work done by BNI and pointed out that there is a lot of interest to also follow the time series of nutrient fractions and not only total nutrients.
- 5.3 The Meeting took note that for some of the Russian river catchments the nutrient fraction data can be used to check the total nutrient loads since the inorganic fractions are monitored and total nutrient loads are calculated using models. The Meeting also took note that the data includes some small rivers in Russia that have been reported individually only once in 2003 but otherwise these rivers are reported as part of GUF unmonitored area. The Meeting proposed that the data on these rivers are removed from the PLC database. The Meeting further took note that there is an issue of low correlation of the nitrogen and phosphorous loads in the Neva river which should be investigated.
- 5.4 The Meeting discussed the proposal to include the nutrient fractions to the Baltic Sea Environment Fact Sheet to be updated in 2022. The Meeting agreed to check the plots presented by BNI and come back to the issue in PLC-8 IG 7-2022 meeting to discuss if Contracting Parties can make the necessary corrections and then decide if the nitrates and dissolved phosphorus could be included in the BSEFS.
- 5.5 The Meeting recalled that PRESSURE 15-2021 highlighted that it would be important to have follow-up results of new NIC's available (NIC assessment) as soon as possible, and that the meeting invited the RedCore DG to find a solution to have draft product, based on the latest NIC assessment, indicating possible changes due to the new NIC values already available for PRESSURE 16-2022.
- 5.6 The Meeting also recalled that RedCore DG 34-2021 discussed how to update the NIC 2017 assessment. One open question is how to handle the changed proportion of TN and TP for German Oder load in the NIC assessment. The Meeting discussed the issue and pointed out that if the change in proportion is introduced already some years prior this would allow for more consistency in the upcoming evaluations. The Meeting took note that BNI will make a test calculation with this approach and proposal for the PLC-8 IG 7-2022 meeting.
- 5.7 The Meeting considered the information presented for PRESSURE 15-2021 from MARITIME 21-2021 regarding volumes of various substances discharged from ships ([document 11-4](#) to MARITIME 21-2021) and metal and PAH loads from ships and boats in the Baltic Sea ([document 11-6](#) to MARITIME 21-2021) for addressing the total loads of hazardous substances to the Baltic Sea and agreed to come back to how the information in the reports can be used in the PLC-8 IG 7-2022 meeting and to invite Erik Ytreberg from Chalmers University of Technology to present the results in the meeting.
- 5.8 The Meeting took note that the BalticAIMS project has continued working on new user cases and will next integrate PLC data to the satellite data. The Meeting invited Germany to be in contact with the project and, if available, invite the project to present results in PLC-8 IG 7-2022 meeting.
- 5.9 The Meeting took note of the update on the HELCOM PLUS application/interface (**Presentation 4**).
- 5.10 The Meeting took note that Germany is interested to re-report the PLC-6 data which could take place together with reporting of the new data or earlier. The Meeting invited Germany to contact the Secretariat to discuss the matter further.
- 5.11 The Meeting took note that OSPAR is revising their database and one of the options explored is utilizing the HELCOM PLUS database as it is or as a further developed version. The Meeting also took note that if financing can be secured, there will be a pilot project in May-December 2022 on using the HELCOM PLUS database.
- 5.12 The Meeting took note of the proposal for updating the pages on nutrient input reduction scheme on the HELCOM website (**Presentation 5**). The Meeting supported the update of the pages regarding both the content and the structure. The Meeting proposed to link the other eutrophication indicators to the pages. The Meeting also proposed that the NIC report could be made into a PDF that could be downloaded from the NIC website. The Meeting invited further comments on the content of the website to be sent to the

Secretariat (lotta.ruokanen@helcom.fi) and took note that the Secretariat will start the update of the website in the beginning of 2022.

5.13 The Meeting considered and welcomed the information on the preliminary results of the Russian-Estonian NARVAWATMAN project (**Presentation 6**) including findings from joint hydrological and hydrochemical measurements.

Agenda Item 6 Future work

6.1 The Meeting took note of the updated timetable for PLC-8 project implementation presented by the Project Manager (**Annex 3**).

6.2 The Meeting agreed on the topics to be considered by PLC-8 IG 7-2022 as given in **Annex 4**.

6.3 The Meeting agreed that a two-day PLC-8 IG 7-2022 meeting will be held on **15-16 March 2022** online or in Stockholm.

Agenda Item 7 Closing of the Meeting

7.1 The Outcome of the Meeting was adopted via correspondence.

Annex 1. List of participants

| Name | Representing | Organization | Email |
|-------------------------|--------------------|--|-------------------------------|
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| Olga Zadonskaya | Invited guest | Russian Federal State Budgetary Organization | Olga Zadonskaya |
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Annex 2 List of nominated national contacts for PLC-8

| Representing | Name | Organization | E-mail |
|--------------------|-------------------|--|---|
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Annex 3. Topics to be considered by PLC-8 IG 7-2021

- Assessment dataset 2020 – preparing for BSEF waterborne inputs
- Follow up on time series of dissolved nutrient fractions– preparing for BSEP waterborne inputs
- Gothenburg Protocol review/atm. deposition issues?
- Preparation for a workshop with PLC involvement
- Update of NIC assessment with revised NIC's
- Any follow-up from HELCOM annual meeting (e.g. source apportionment)
- Effectiveness of measures in PLC-8 project
- Criteria for designating new nutrient hot spots
- Cooperation with Expert Group hazardous substances EN-HAZ
- HOLASIII support
- Cooperation with Maritime on discharges of substances from shipping – presentation
- BalticAIMS – presentation?
- Issues related to reporting LOQ/LOD (cf. 3.5)
- Short written report together with annual reporting (cf. 3.7)

Annex 4. Revised timetable for PLC-8 implementation

Table 1: Overview of the main tasks and the planned start and end for each task. “4/2021” indicates fourth quarter of 2021. The column “Finalized” indicates when tasks are finalized. *Italic*: extra task not included in the project description. With *italic are* indicated extra task as compared with the PLC-8 project proposal. With **green**: revised deadlines compared with original deadline.

| PLC-8 task | Start | End | Finalized |
|---|--------|---------------|---------------|
| 1. Project management (including about 13 project team meetings) | 3/2020 | 4/2024 | |
| 2. Workshops (2 workshops are planned) | 4/2021 | 3/2024 | |
| 3. Compilation of the executive summary and policy messages | 3/2024 | 4/2024 | |
| 4. <i>Monitoring annual data</i> | | | |
| - <i>Monitoring annual data 2019</i> | 1/2019 | 4/2019 | 4/2019 |
| - Monitoring annual data 2020 | 1/2020 | 4/2020 | 4/2020 |
| - Monitoring annual data 2021 | 1/2021 | 4/2021 | 4/2021 |
| - Monitoring annual data 2022 | 1/2022 | 4/2022 | |
| - Monitoring annual data 2023 | 1/2023 | 4/2023 | |
| 5. Compilation + reporting of quality assured national annual: | | | |
| - 2019 data | 4/2020 | 2/2021 | 3/2021 |
| - 2020 data | 4/2021 | 1/2022 | 4/2021 |
| - 2021 data | 4/2022 | 1/2023 | |
| - 2022 data | 4/2023 | 1/2024 | |
| - 2023 data | 4/2024 | ?????? | |
| 6. Establishing of annual assessment data set | | | |
| - Data set 2019 | 4/2020 | 3/2022 | 3/2021 |
| - Data set 2020 | 4/2021 | 1/2022 | |
| - Data set 2021 | 4/2022 | 1/2023 | |
| - Data set 2022 | 4/2023 | 1/2024 | |
| 7a. Monitoring and collection of national periodic data 2021 | 1/2021 | 4/2021 | |
| 7b. Compilation and reporting of quality assured national periodic data 2021 | 1/2022 | 1/2023 | |
| 8. EMEP Annual data and indicator fact sheet | | | |
| - EMEP: annual data and indicator fact sheets 1995-2019 | 2/2021 | 3/2021 | 3/2021 |
| - EMEP: annual data and indicator fact sheets 1995-2020 | 2/2022 | 3/2022 | |
| - EMEP: annual data and indicator fact sheets 1995-2021 | 2/2023 | 3/2023 | |
| - EMEP: annual data and indicator fact sheets 1995-2022 | 2/2024 | 3/2024 | |
| 9. EMEP: source receptor, main sources data + report based on 2021 data | 2/2023 | 4/2023 | |
| 10. Establishing the periodic assessment data set (PLC 2021 data) | 1/2023 | 3/2023 | |
| 11. Collection of background information including information on measures | 1/2023 | 2/2024 | |
| 12. Annual BSEP on waterborne nutrient inputs | | | |
| - Annual BSEP on waterborne nutrient inputs 1995-2018 | 2/2020 | 2/2020 | 2/2020 |
| - Annual BSEP on waterborne nutrient inputs 1995-2019 | 2/2021 | 2/2021 | 2/2021 |
| - Annual BSEP on waterborne nutrient inputs 1995-2020 | 2/2022 | 2/2022 | |
| - Annual BSEP on waterborne nutrient inputs 1995-2021 | 2/2023 | 2/2023 | |
| - <i>Annual BSEP on waterborne nutrient inputs 1995-2022</i> | 2/2024 | 2/2024 | |
| 13. Update of HELCOM MAI indicator | | | |
| - <i>Update of HELCOM MAI indicator 1995-2018</i> | 3/2020 | 4/2020 | 4/2020 |
| - Update of HELCOM MAI indicator 1995-2019 | 3/2021 | 4/2021 | 4/2021 |
| - Update of HELCOM MAI indicator 1995-2020 | 3/2022 | 4/2022 | |
| - Update of HELCOM MAI indicator 1995-2021 | 3/2023 | 4/2023 | |
| - Update of HELCOM MAI indicator 1995-2022 | 3/2024 | 4/2024 | |
| 14a. Assessment of the progress towards NIC 1995-2020 | 2/2022 | 4/2022 | |
| 14b. Assessment of the progress towards NIC 1995-2022 | 2/2024 | 4/2024 | |
| 15. Assessment of inputs by big rivers 1995-2021(?) | 1/2023 | 4/2023 | |
| 16. Assessment of inputs of selected hazardous substances 1995-2021(?) | 1/2023 | 4/2023 | |
| 17. Assessment of sources of nutrients (PLC 2021 data) | 3/2023 | 2/2024 | |
| 18. Assessment of the effectiveness of measures 1995-2021(?) | 1/2023 | 1/2024 | |
| 19. Updated report on background information | 2/2024 | 4/2024 | |
| 20. Updated report on methodologies used for follow up HELCOM nutrient input reduction scheme | 3/2023 | 1/2024 | |

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|--|--------|--------|--------|
| 21. Updating PLC guidelines (original deadline 1/2021) | 3/2020 | 4/2021 | 1/2022 |
| 22. Updating statistical methodology report (changed from 3/2023-4/2023 to:) | 4/2020 | 3/2021 | 4/2021 |
| 23. Intercalibration of hazardous substances and nutrients concentrations | 3/2020 | 2/2021 | 2/2021 |
| 24. <i>Other tasks to finalized from PLC-7 project:</i> | | | |
| - <i>PLC-7 Hazardous substances</i> | | 2/2021 | 2/2021 |
| - <i>PLC-7 Big rivers report</i> | | 2/2021 | 2/2021 |
| - <i>PLC-7 methodology report</i> | | 2/2021 | 4/2021 |
| - <i>PLC-7 background information report</i> | | 2/2021 | 4/2021 |
| - <i>Evaluation of effectiveness of measures</i> | | 4/2021 | 4/2021 |
| - <i>Assessment of nutrient sources</i> | | 1/2022 | |
| - <i>PLC-7 executive summary</i> | | 1/2022 | |